

CLAIM AMENDMENTS

Claims 1-3 (cancelled).

Claim 4 (currently amended):

A woodworking machine comprising:
a base assembly defining a cutting zone;
operative structure movably coupled to the base assembly;
a movable cutting tool mounted on the operative structure and
configured to cut workpieces in the cutting zone when the operative structure
is moved toward the cutting zone;
a motor configured to move the cutting tool;
a detection system configured to detect one or more dangerous
conditions between a person and the cutting tool; and
a reaction system configured to stop the movements of the cutting tool
and the operative structure in response to the detection of a dangerous
condition by the detection system, where the reaction system is coupled to
the operative structure and configured to selectively engage both the cutting
tool and the base assembly; where the reaction system includes a first
braking element configured to engage the cutting tool, and a second braking
element configured to engage the base assembly; and ~~The woodworking~~
~~machine of claim 3,~~ where the first and second braking elements are pivotally
coupled together.

Claim 5 (currently amended).

The woodworking machine of claim 2 4, where the reaction system includes a biasing mechanism configured to urge the first braking element into engagement with the cutting tool.

Claim 6 (currently amended):

The woodworking machine of claim 5 4, where the biasing mechanism is configured to urge the second braking element into engagement with the base assembly.

Claim 7 (currently amended):

The woodworking machine of claim 5 4, where the first braking element is configured to urge the second braking element into engagement with the base assembly.

Claim 8 (currently amended):

A woodworking machine comprising:
a base assembly defining a cutting zone;
operative structure movably coupled to the base assembly;
a movable cutting tool mounted on the operative structure and
configured to cut workpieces in the cutting zone when the operative structure
is moved toward the cutting zone;
a motor configured to move the cutting tool;
a detection system configured to detect one or more dangerous
conditions between a person and the cutting tool; and

a reaction system configured to stop the movements of the cutting tool and the operative structure in response to the detection of a dangerous condition by the detection system, where the reaction system is coupled to the operative structure and configured to selectively engage both the cutting tool and the base assembly; where the reaction system includes a first braking element configured to engage the cutting tool, and a second braking element configured to engage the base assembly; and ~~The woodworking machine of claim 2,~~ where the reaction system includes a biasing mechanism configured to urge the second braking element into engagement with the base assembly, and where the first braking element is configured to releasably restrain the second braking element against the urging of the biasing mechanism.

Claim 9 (original):

The woodworking machine of claim 8, where the second braking element includes anchor structure, and where the first braking element includes grappling structure configured to releasably grip the anchor structure.

Claim 10-14 (cancelled).

Claim 15 (currently amended):

A miter saw comprising:

a base assembly;

a pivot arm assembly movably coupled to the base assembly;

a rotatable blade mounted on the pivot arm assembly;

a motor configured to drive the blade;

a detection system configured to detect accidental contact between a person and the blade; and

a reaction system coupled to the pivot arm assembly and configured to stop both the movement of the pivot arm assembly and the rotation of the blade upon the detection of contact by the detection system;

where the reaction system includes a first braking element configured to engage and stop the movement of the blade, and a second braking element configured to engage the base assembly and stop the movement of the pivot arm assembly ~~The miter saw of claim 14,~~ where the first braking element is configured to urge the second braking element into engagement with the base assembly.

Claim 16 (original):

The miter saw of claim 44 15, where the first and second braking elements are pivotally coupled together.

Claims 17-20 (cancelled).